

[illegible]

FIGURE 1

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Construct

Gene: 17
 Gene Family: GPCR
 Gene Subfamily: Orphan GPCR
 Gene Sequence: EST contig, Mouse

GI Number(s): 1738456
 1749042

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

ATTCGGCACTGAGGAG [TTAATACACAGCTGCAAGATATACCGAATACAAGAACCTGGGT
 TTGCCAAAATGATATCAGCTGTCGTGTGGCTCATGGTCCTGCTGATCATGGTGCCGAACA
 TGGTGA] TTCCCATCAAGGACATCAAAGAAAAGTCAAATGTAGGTTGCATGGAGTTTAAA
AAGGAGTTTGGGAAGAACTGGCATTGCTAACAACTTCATCTGTGTGGCAATATTTTTTA
AATTTCTCAGTCATCATTTTGATATCCAACCTCCTTGCAATCAGACAACCTCTATAGAAAT
AGAGACAACACAACTATCCAAGTGTGAAATCAGCTCTGCTCCACATTCTCTGGTGACA
GCTAGTTACATCATATGCTTTGTTCCCTACCAGCTGTCAGGATCCCATACACCCTCAGC
CAGACAGAGGTCATATCTGATTGCTCAACTAGGATCGCACTCTTCAAAGCCAAAGAGGCC
ACACTGCTGCTGGCGGTGTCTAATTTGTGTTTGTATCCAATCCTGTACTATCATCTGTCA
AAAGCCTTTGCACTAAAGGTCAACGAGACTTTCGCCTCACCTAAAAAGAGCAAGCCTCTG
GAAGAAAGATTGAGAAGTGAGAATGATGTGTAATAATGCAGGCTTTGCACGTTAGTCCTTC
TTCTCTG [ACTGGACCATAAAGCTGGTCACAGTTTTC]

Gene Sequence
 Structure *

126 bp

Sequence Deleted

664 bp

Size of EST contig: 693 bp

FIGURE 2A

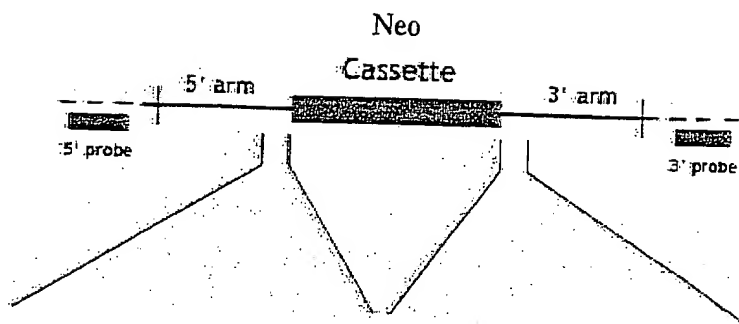
Targeting Vector* (genomic sequence)

Construct Number: 87

Arm Length:

5': 8 kb

3': 1.6 kb



Targeting Vector

Endogenous Locus

* Not drawn to scale

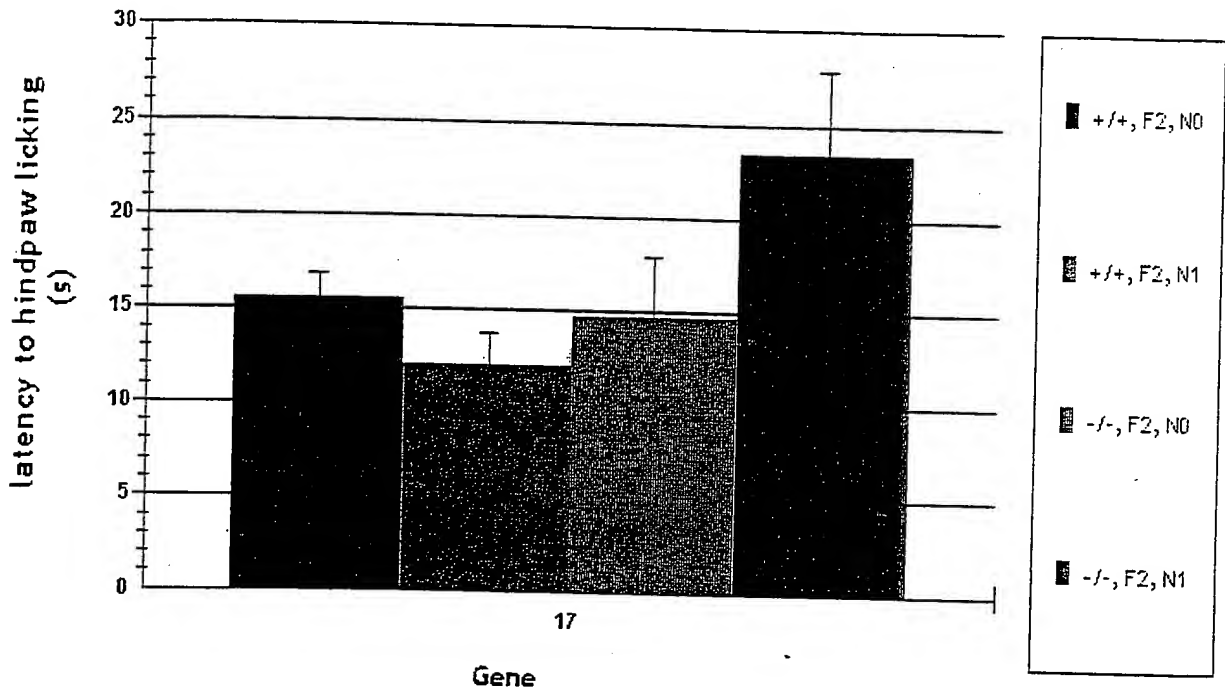
5'>CCACTGCCAAGTGACAGCCTG
CCTCATCTACATCAATATGTACTT
ATCTATTTATCTTCTTTAGCCTTTGT
CAGCATCGATCGCTGTCTTCAGTT
AATACACAGCTGCAAGATATACCG
AATACAAGAACCTGGGTTTGGCAA
AATGATATACAGCTGTCGTGTGGCT
CATGGTCCTGCTGTATCATGGTGTC
GAACATGGTGA<3' .
(SEQ ID NO:2)

5' >ACTGGACCATAAAGCTGGTCA
CAGTTTTCAAAAATAAAGAAGAT
GCTGAGATAGAAGAAGATGCTTAG
GAATAAGAGCCCAATAGCTAGC
AAACGGGACTGGTTCATGCAGAAA
GTCCTTTCTTCAATCCAAGCCAA
CCTGCACCTCACAGATGCTGACA
TTCTTTACCTAACAAAGCACATTG
ACCAAGGTCA<3'
(SEQ ID NO:3)

FIGURE 2B

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hot plate - latency to hindpaw licking



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FIGURE 3

Phenotypic Data Summary - Open Field

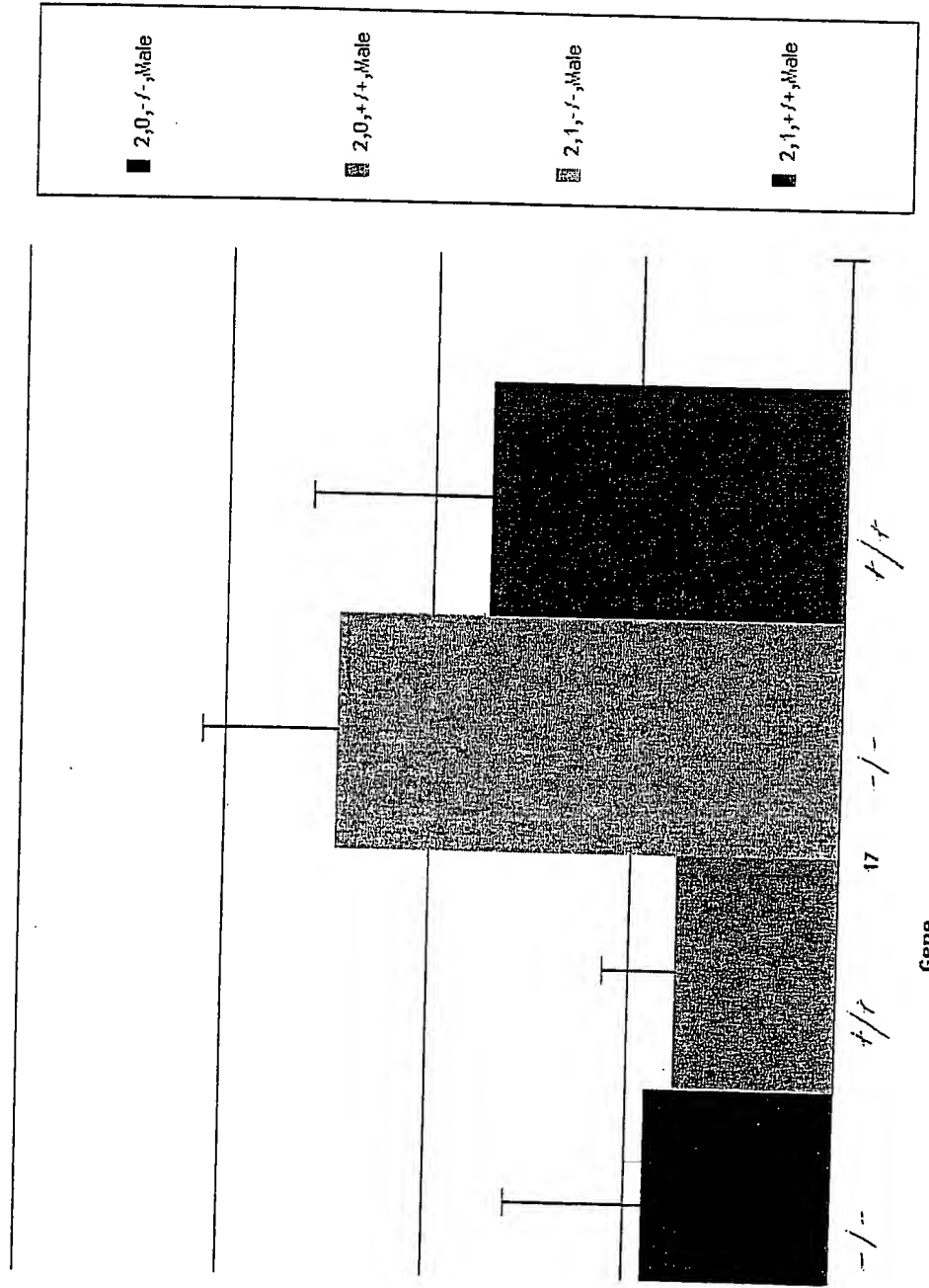


FIGURE 4